## CLAIMS

Please replace all prior versions and listings of claims with the amended claims as follows:

- 1. (currently amended) A composition comprising:
- (a) an apoptosis inducing anti-cancer agent fludarabine;
- (b) a compound of formula (A);

- (C2-C6) straight or branched alkenyl or alkynyll-R2 or -R2

wherein:

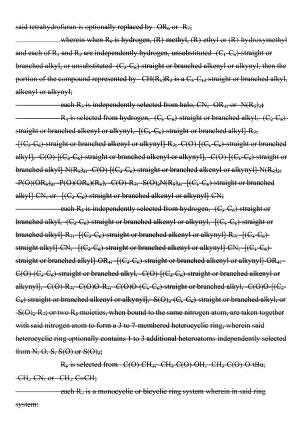
 $\begin{array}{c} \text{each of $R_{+}$ and $R_{2}$ is independently selected from hydrogen; $-CF_{2}$; $(C_{+}-C_{0})$ straight or branched alkyl; $(C_{2}-C_{0})$ straight or branched alkenyl or alkynyl; $(C_{+}-C_{0})$ straight or branched alkenyl or alkynyl]$. $R_{2}$  or \$R\_{2}\$ and wherein at least one of \$R\_{+}\$ or \$R\_{2}\$ is \$-(C\_{2}-C\_{0})\$ straight or branched alkyl \$R\_{2}\$; \$(C\_{2}-C\_{0})\$ straight or branched alkyl \$R\_{2}\$; \$(C\_{2}-C\_{0})\$; \$(C\_{2}-C\_{0})\$ straight or \$C\_{2}-C\_{0}\$; \$(C

one of  $R_1$  or  $R_2$  is selected from hydrogen, ethyl or phenyl; and the other of  $R_1$  or  $R_2$  is selected from -CH<sub>2</sub>OH, -CH<sub>2</sub>CN, -CH<sub>2</sub>CH<sub>2</sub>CN or CH<sub>2</sub>N(CH<sub>2</sub>CH<sub>3</sub>)<sub>2</sub>, or wherein  $R_1$  and  $R_2$  are taken together to form a 3-tetrahydrofuranyl moiety.

wherein up to 4 hydrogen atoms in any of said alkyl, alkenyl or alkynyl are optionally and independently replaced by R<sub>3</sub>; and

wherein one or both of R<sub>1</sub> or R<sub>2</sub> are optionally esterified to form a prodrug; or

wherein R<sub>4</sub> and R<sub>2</sub> are alternatively taken together to form tetrahydrofuranyl, wherein when R<sub>6</sub> is hydrogen, (R) methyl, (R) ethyl or (R) hydroxymethyl, one hydrogen atom in said tetrahydrofuran is replaced by OR<sub>6</sub> or R<sub>7</sub>, and wherein when R<sub>6</sub> is (S) methyl, (S) ethyl or (S) hydroxymethyl, one hydrogen atom in



i. each ring comprises 3 to 7 ring atoms independently selected from C, N, O or S;

ii. no more than 4 ring atoms are selected from N, O or S;

iii. any CH<sub>2</sub> is optionally replaced with C(O);

iv. any S is optionally replaced with S(O) or S(O)<sub>2</sub>;

each R<sub>2</sub> is independently selected from hydrogen or -[C<sub>4</sub>-C<sub>4</sub>] straight or branched alled:

wherein in any ring system in said compound up to 3 hydrogen atoms bound to the ring atoms are optionally and independently replaced with halo, hydroxy, nitro, eyano, amino,  $(C_4, C_4)$  straight or branched alkyl,  $(C_2, C_4)$  straight or branched alkenyl or alkynyl, or  $(C_2, C_4)$  straight or branched alkenyl or alkynyl, or  $(C_2, C_4)$  straight or branched alkenyl or alkynyl; and

## wherein any ring system is optionally benzofused;

 $R_9 \ is \ selected \ from \ hydrogen, \ (R)-methyl, \ (S)-methyl, \ (R)-ethyl, \ (S)-ethyl, \ (R)-hydroxymethyl \ or \ (S)-hydroxymethyl;$ 

R<sub>10</sub> is selected from -C=N or 5-oxazolvl; and

 $R_{11} \ is \ selected \ from \ halo, -O-(C_1-C_3) \ straight \ alkyl, or \ -O-(C_2-C_3) \ straight \ alkynyl; \ and$  alkenyl or alkynyl; and

- (c) a pharmaceutically acceptable carrier.
- (original) The composition according to claim 1, wherein said compound has the formula (I):

wherein R1 and R2 are as defined in claim 1.

3. (canceled)

- 4. (original) The composition according to claim  $3\ \underline{1}$ , wherein  $R_9$  is selected from (S)-methyl, (S)-ethyl, or (S)-hydroxymethyl methyl.
- $\label{eq:composition} 5. \ \mbox{(original) The composition according to claim 4, wherein $R_9$ is $(S)$-methyl.}$
- $\label{eq:controller} 6. \mbox{ (currently amended) The composition according to claim $3\underline{1}$, wherein $R_{11}$ is selected from O-methyl, O-ethyl or O-isopropyl.}$ 
  - 7-9. (canceled)
- (currently amended) The composition according to claim 1, wherein said compound is selected from; any one of compounds 1 to 187 in Table 1.

162	Chiral NH
	N O
163	N N N N N N N N N N N N N N N N N N N
164	NH NH NH NH O OH
165	NH NH HN OH
166	Chiral NH NH NH NH NH NH
167	Chiral NH NH NH O

168	Chiral NH 0 NN N
169	Chiral NH O N N N N N N N N N N N N N N N N N
170	Chiral NH 0 NH 0 N
171	Chiral CN NH NH NH NH NH
172	Chiral CN NH HN NH O
173	Chiral CN NH HN NH O

174	Chiral CN NH HN NH O
175	Chinal NH O OH
176	Chiral NH O OH
177	N N N N N N N N N N N N N N N N N N N
178	H H H H N O P
179	Chiral OH

180	Chiral O H
181	Chiral NH NH NH NH
182	O NH HN NH O CN
183	

184	Citred  N  N  N  N  N  N  N  N  N  N  N  N  N
185	Christ  N  N  N  N  N  N  N  N  N  N  N  N  N
186	CH <sub>5</sub> NH
187	

 (currently amended) The composition according to claim 10, wherein said compound is selected from;

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any one of compounds 1, 23, 26, 27, 29, 32, 76, 80, 87, 89, 98, 101, 103, 104, 106, 108,

## 12-19. (canceled)

- 20. (withdrawn-currently amended) A method for inhibiting tumors and cancer in a mammal comprising the step of administrating to said mammal a composition according to any one of claims 1–19 1, 2, 4-6, 10 or 11.
- 21. (withdrawn) The method according to claim 20, wherein said method is useful to treat or prevent lymphoma, leukemia and related disorders, myelodysplastic syndrome, metastatic melanoma, and other forms of cancer.
- 22. (new) The composition according to claim 10, wherein said compound is:

- 23. (new) A method for inhibiting tumors and cancer in a mammal comprising the step of administrating to said mammal a composition according to claim 22.
- 24. (new) The method according to claim 22, wherein said method is useful to treat or prevent lymphoma, leukemia and related disorders, myelodysplastic syndrome, metastatic melanoma, and other forms of cancer.
- 25. (new) The method according to claim 23, wherein said other forms of cnacer comprise breast cancer, colon cancer, pancreatic cancer, and prostate cancer.